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<110> KYOWA HAKKO KOGYO CO., LTD.

<120> Process for the antibody composition using RNA which inhibits a function of alpha 1,6-fucosyltransferase

<130> 11621w01

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<141> 2006-04-10

<150> PCT/JP04/15316

<151> 2004-10-08

<150> P2003-350167

<151> 2003-10-09

<160> 54

<170> PatentIn Ver. 2.1

<210> 1

<211> 2008

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Ile Glu Asn Tyr 100 Lys Lys Gln Ala Arg 105 Asn Gly Leu Gly Lys 110 Asp His

Glu Ile Leu 115 Arg Arg Arg Ile Glu 120 Asn Gly Ala Lys Glu 125 Leu Trp Phe

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## seq list.txt

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165         170         175
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Leu Gly Phe Lys His Pro Val Ile Gly Val His Val Arg Arg Thr Asp
355         360         365
Lys Val Gly Thr Glu Ala Ala Phe His Pro Ile Glu Glu Tyr Met Val
370         375         380
His Val Glu Glu His Phe Gln Leu Leu Ala Arg Arg Met Gln Val Asp
385         390         395
Lys Lys Arg Val Tyr Leu Ala Thr Asp Asp Pro Ser Leu Leu Lys Glu
405         410         415
Ala Lys Thr Lys Tyr Pro Asn Tyr Glu Phe Ile Ser Asp Asn Ser Ile
420         425         430
Ser Trp Ser Ala Gly Leu His Asn Arg Tyr Thr Glu Asn Ser Leu Arg
435         440         445
Gly Val Ile Leu Asp Ile His Phe Leu Ser Gln Ala Asp Phe Leu Val
450         455         460
Cys Thr Phe Ser Ser Gln Val Cys Arg Val Ala Tyr Glu Ile Met Gln

```

seq list.txt

465	470	475	480
Thr Leu His Pro Asp	Ala Ser Ala Asn Phe His Ser Leu Asp Asp Ile		
	485	490	495
Tyr Tyr Phe Gly Gly Gln Asn Ala His Asn Gln Ile Ala Ile Tyr Ala			
	500	505	510
His Gln Pro Arg Thr Ala Asp Glu Ile Pro Met Glu Pro Gly Asp Ile			
	515	520	525
Ile Gly Val Ala Gly Asn His Trp Asp Gly Tyr Ser Lys Gly Val Asn			
	530	535	540
Arg Lys Leu Gly Arg Thr Gly Leu Tyr Pro Ser Tyr Lys Val Arg Glu			
	545	550	555
Lys Ile Glu Thr Val Lys Tyr Pro Thr Tyr Pro Glu Ala Glu Lys			
	565	570	575

<210> 9  
 <211> 40  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic RNA

<400> 9  
 gaagggaguu gaaacucuga aaaugcgggc auggacuggu 40

<210> 10  
 <211> 31  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic RNA

<400> 10  
 gaggagaaug gcugagucuc uccgaauacc a 31

<210> 11  
 <211> 33  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic RNA

<400> 11  
 ccaaagacau gcagaugaaa uucuuuugga uuu 33

<210> 12  
 <211> 35  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic RNA

<400> 12  
 ucuuggauc ucagaauugg cgcuauugcua cugga 35

<210> 13  
 <211> 32  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic RNA

<400> 13  
 auacacagaa aaucacuuc ggggcgugau cc 32

seq list.txt

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<210> 14
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 14
ucaucccagg ucuguagggg ugcuuauaagaa auca
34

<210> 15
<211> 36
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 15
caucuacuau uuuggaggcc aaaaugccca caacca
36

<210> 16
<211> 31
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 16
ugcacuggug gaacgccucu uugugaaggg c
31

<210> 17
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 17
caagaagcuu ggcuucaaac auccaguauu ugga
34

<210> 18
<211> 35
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 18
uauggcaccc agcgaacacu caucuuggaa ucuca
35

<210> 19
<211> 31
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 19
gaggcgaaug gcugagucuc uccgaauacc a
31

<210> 20
<211> 31
<212> RNA
<213> Artificial Sequence

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seq list.txt

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<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 20
gaggcgaaug gccgaaucuc uccggauacc a
31

<210> 21
<211> 33
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 21
ccaaagacau gcagaugaau uucuuuugga uuu
33

<210> 22
<211> 35
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 22
ucuuggauc ucagaauugg cgcuaugcua cuggu
35

<210> 23
<211> 32
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 23
guacacagaa aaucacuuc ggggugugau cc
32

<210> 24
<211> 32
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 24
auacacagaa aaucacuuc guggagugau cc
32

<210> 25
<211> 32
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 25
guacacagaa aaucacuuc ggggcgugau cc
32

<210> 26
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 26
ucauccagg ucugucgggu ugcuuaugaa auca
34

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seq list.txt

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<210> 27
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 27
ucaucccagg ucugucgagu ugcuuaugaa auua
34

<210> 28
<211> 36
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 28
caucuacuau uuuggaggcc aaaaugccca caauca
36

<210> 29
<211> 36
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 29
caucuacuau uuugggggcc agaaugccca caauca
36

<210> 30
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic RNA

<400> 30
caagaagcuu ggcuucaaac auccagucan ugga
34

<210> 31
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic DNA

<400> 31
gtctgaagca ttatgtgttg aagc
24

<210> 32
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic DNA

<400> 32
gtgagtacat tcattgtact gtg
23

<210> 33
<211> 17
<212> DNA
<213> Artificial Sequence

<220>

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seq list.txt

<223> Description of Artificial Sequence: Synthetic DNA

<400> 33  
ttcccagtca cgacgtt 17

<210> 34  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 34  
caggaaacag ctatgac 17

<210> 35  
<211> 18  
<212> PRT  
<213> Homo sapiens  
<220>

<400> 35  
Asp Glu Ser Ile Tyr Ser Asn Tyr Tyr Leu Tyr Glu Ser Ile Pro Lys  
1 5 10 15  
Pro Cys

<210> 36  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 36  
atcctcgtcc tccttactta cc 22

<210> 37  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 37  
tccagctgac caagaaatag ag 22

<210> 38  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 38  
gatatcgctg cgctcgtcgt cgac 24

<210> 39  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic DNA

<400> 39  
caggaaggaa ggctggaaga gagc 24

<210> 40  
<211> 40

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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic DNA

<400> 40
cccaagcttg atatcaaggt cgggcaggaa gagggcctat 40

<210> 41
<211> 52
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic DNA

<400> 41
gctctagaga tatcaaaaaa ggtaccgagc tcggtgtttc gtcctttcca ca 52

<210> 42
<211> 74
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic DNA

<400> 42
cgaatggctg agtctctccg aataccagaa cttcctgtca ttctggtatt cggagagact 60
cagccattcg gtac 74

<210> 43
<211> 74
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic DNA

<400> 43
cgaatggctg agtctctccg aataccagaa tgacaggaag ttctggtatt cggagagact 60
cagccattcg agct 74

<210> 44
<211> 74
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic DNA

<400> 44
cccagcgaac actcatcttg gaatctcaga cttcctgtca tctgagattc caagatgagt 60
gttcgctggg gtac 74

<210> 45
<211> 74
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic DNA

<400> 45
cccagcgaac actcatcttg gaatctcaga tgacaggaag tctgagattc caagatgagt 60
gttcgctggg agct 74

<210> 46

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## seq list.txt

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<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic DNA

<400> 46
ggcagctgcg ccagggtttt cccagtcacg ac 32

<210> 47
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic DNA

<400> 47
cccagctgaa aaaaggtacc ctatgagctc ggggttggtt ttg 44

<210> 48
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic DNA

<400> 48
taaatagaat tcggcatcat gtggcagctg ct 32

<210> 49
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic DNA

<400> 49
aataaaggat cctggggtca tttgtcttga gggt 34

<210> 50
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (13)..(774)

<400> 50
gaa ttc ggc atc atg tgg cag ctg ctc ctc cca act gct ctg cta ctt 48
          Met Trp Gln Leu Leu Leu Pro Thr Ala Leu Leu Leu
          1      5      10
cta gtt tca gct ggc atg cgg act gaa gat ctc cca aag gct gtg gtg 96
Leu Val Ser Ala Gly Met Arg Thr Glu Asp Leu Pro Lys Ala Val Val
          15      20      25
ttc ctg gag cct caa tgg tac agg gtg ctc gag aag gac agt gtg act 144
Phe Leu Glu Pro Gln Trp Tyr Arg Val Leu Glu Lys Asp Ser Val Thr
          30      35      40
ctg aag tgc cag gga gcc tac tcc cct gag gac aat tcc aca cag tgg 192
Leu Lys Cys Gln Gly Ala Tyr Ser Pro Glu Asp Asn Ser Thr Gln Trp
          45      50      55      60
ttt cac aat gag agc ctc atc tca agc cag gcc tcg agc tac ttc att 240
Phe His Asn Glu Ser Leu Ile Ser Ser Gln Ala Ser Ser Tyr Phe Ile
          65      70      75
gac gct gcc aca gtc gac gac agt gga gag tac agg tgc cag aca aac 288
Asp Ala Ala Thr Val Asp Asp Ser Gly Glu Tyr Arg Cys Gln Thr Asn
          80      85      90
ctc tcc acc ctc agt gac ccg gtg cag cta gaa gtc cat atc ggc tgg 336
Leu Ser Thr Leu Ser Asp Pro Val Gln Leu Glu Val His Ile Gly Trp
          95      100      105
ctg ttg ctc cag gcc cct cgg tgg gtg ttc aag gag gaa gac cct att 384

```



seq list.txt

```

Leu Leu Leu Gln Ala Pro Arg Trp Val Phe Lys Glu Glu Asp Pro Ile
110 115 120
cac ctg agg tgt cac agc tgg aag aac act gct ctg cat aag gtc aca 432
His Leu Arg Cys His Ser Trp Lys Asn Thr Ala Leu His Lys Val Thr
125 130 135 140
tat tta cag aat ggc aaa ggc agg aag tat ttt cat cat aat tct gac 480
Tyr Leu Gln Asn Gly Lys Gly Arg Lys Tyr Phe His His Asn Ser Asp
145 150 155
ttc tac att cca aaa gcc aca ctc aaa gac agc ggc tcc tac ttc tgc 528
Phe Tyr Ile Pro Lys Ala Thr Leu Lys Asp Ser Gly Ser Tyr Phe Cys
160 165 170
agg ggg ctt ttt ggg agt aaa aat gtg tct tca gag act gtg aac atc 576
Arg Gly Leu Phe Gly Ser Lys Asn Val Ser Ser Glu Thr Val Asn Ile
175 180 185
acc atc act caa ggt ttg gca gtg tca acc atc tca tca ttc ttt cca 624
Thr Ile Thr Gln Gly Leu Ala Val Ser Thr Ile Ser Ser Phe Phe Pro
190 195 200
cct ggg tac caa gtc tct ttc tgc ttg gtg atg gta ctc ctt ttt gca 672
Pro Gly Tyr Gln Val Ser Phe Cys Leu Val Met Val Leu Leu Phe Ala
205 210 215 220
gtg gac aca gga cta tat ttc tct gtg aag aca aac att cga agc tca 720
Val Asp Thr Gly Leu Tyr Phe Ser Val Lys Thr Asn Ile Arg Ser Ser
225 230 235
aca aga gac tgg aag gac cat aaa ttt aaa tgg aga aag gac cct caa 768
Thr Arg Asp Trp Lys Asp His Lys Phe Lys Trp Arg Lys Asp Pro Gln
240 245 250
gac aaa tga ccc cag gat cc 788
Asp Lys

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<210> 51  
 <211> 254  
 <212> PRT  
 <213> Homo sapiens

<400> 51

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Met Trp Gln Leu Leu Leu Pro Thr Ala Leu Leu Leu Leu Val Ser Ala
1 5 10 15
Gly Met Arg Thr Glu Asp Leu Pro Lys Ala Val Val Phe Leu Glu Pro
20 25 30
Gln Trp Tyr Arg Val Leu Glu Lys Asp Ser Val Thr Leu Lys Cys Gln
35 40 45
Gly Ala Tyr Ser Pro Glu Asp Asn Ser Thr Gln Trp Phe His Asn Glu
50 55 60
Ser Leu Ile Ser Ser Gln Ala Ser Ser Tyr Phe Ile Asp Ala Ala Thr
65 70 75 80
Val Asp Asp Ser Gly Glu Tyr Arg Cys Gln Thr Asn Leu Ser Thr Leu
85 90 95
Ser Asp Pro Val Gln Leu Glu Val His Ile Gly Trp Leu Leu Leu Gln
100 105 110
Ala Pro Arg Trp Val Phe Lys Glu Glu Asp Pro Ile His Leu Arg Cys
115 120 125
His Ser Trp Lys Asn Thr Ala Leu His Lys Val Thr Tyr Leu Gln Asn
130 135 140
Gly Lys Gly Arg Lys Tyr Phe His His Asn Ser Asp Phe Tyr Ile Pro
145 150 155 160
Lys Ala Thr Leu Lys Asp Ser Gly Ser Tyr Phe Cys Arg Gly Leu Phe
165 170 175
Gly Ser Lys Asn Val Ser Ser Glu Thr Val Asn Ile Thr Ile Thr Gln
180 185 190
Gly Leu Ala Val Ser Thr Ile Ser Ser Phe Phe Pro Pro Gly Tyr Gln
195 200 205
Val Ser Phe Cys Leu Val Met Val Leu Leu Phe Ala Val Asp Thr Gly
210 215 220
Leu Tyr Phe Ser Val Lys Thr Asn Ile Arg Ser Ser Thr Arg Asp Trp
225 230 235 240
Lys Asp His Lys Phe Lys Trp Arg Lys Asp Pro Gln Asp Lys
245 250

```

<210> 52  
 <211> 51  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic DNA

<400> 52

seq list.txt

tggtggatcc tgtcaatgat gatgatgatg atgaccttga gtgatggtga t 51

<210> 53  
 <211> 620  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (13)..(609)

<400> 53  
 gaa ttc ggc atc atg tgg cag ctg ctc ctc cca act gct ctg cta ctt 48  
                   Met Trp Gln Leu Leu Leu Leu Pro Thr Ala Leu Leu  
                   1                  5                  10  
 cta gtt tca gct ggc atg cgg act gaa gat ctc cca aag gct gtg gtg 96  
 Leu Val Ser Ala Gly Met Arg Thr Glu Asp Leu Pro Lys Ala Val Val  
                   15                  20                  25  
 ttc ctg gag cct caa tgg tac agg gtg ctc gag aag gac agt gtg act 144  
 Phe Leu Glu Pro Gln Trp Tyr Arg Val Leu Glu Lys Asp Ser Val Thr  
                   30                  35                  40  
 ctg aag tgc cag gga gcc tac tcc cct gag gac aat tcc aca cag tgg 192  
 Leu Lys Cys Gln Gly Ala Tyr Ser Pro Glu Asp Asn Ser Thr Gln Trp  
                   45                  50                  55                  60  
 ttt cac aat gag agc ctc atc tca agc cag gcc tcg agc tac ttc att 240  
 Phe His Asn Glu Ser Leu Ile Ser Ser Gln Ala Ser Ser Tyr Phe Ile  
                   65                  70                  75  
 gac gct gcc aca gtc gac gac agt gga gag tac agg tgc cag aca aac 288  
 Asp Ala Ala Thr Val Asp Asp Ser Gly Glu Tyr Arg Cys Gln Thr Asn  
                   80                  85                  90  
 ctc tcc acc ctc agt gac ccg gtg cag cta gaa gtc cat atc ggc tgg 336  
 Leu Ser Thr Leu Ser Asp Pro Val Gln Leu Glu Val His Ile Gly Trp  
                   95                  100                  105  
 ctg ttg ctc cag gcc cct cgg tgg gtg ttc aag gag gaa gac cct att 384  
 Leu Leu Leu Gln Ala Pro Arg Trp Val Phe Lys Glu Glu Asp Pro Ile  
                   110                  115                  120  
 cac ctg agg tgt cac agc tgg aag aac act gct ctg cat aag gtc aca 432  
 His Leu Arg Cys His Ser Trp Lys Asn Thr Ala Leu His Lys Val Thr  
                   125                  130                  135                  140  
 tat tta cag aat ggc aaa ggc agg aag tat ttt cat cat aat tct gac 480  
 Tyr Leu Gln Asn Gly Lys Gly Arg Lys Tyr Phe His His Asn Ser Asp  
                   145                  150                  155  
 ttc tac att cca aaa gcc aca ctc aaa gac agc ggc tcc tac ttc tgc 528  
 Phe Tyr Ile Pro Lys Ala Thr Leu Lys Asp Ser Gly Ser Tyr Phe Cys  
                   160                  165                  170  
 agg ggg ctt ttt ggg agt aaa aat gtg tct tca gag act gtg aac atc 576  
 Arg Gly Leu Phe Gly Ser Lys Asn Val Ser Ser Glu Thr Val Asn Ile  
                   175                  180                  185  
 acc atc act caa ggt cat cat cat cat cat cat tga cag gat cc 620  
 Thr Ile Thr Gln Gly His His His His His His  
                   190                  195

<210> 54  
 <211> 199  
 <212> PRT  
 <213> Homo sapiens

<400> 54  
 Met Trp Gln Leu Leu Leu Pro Thr Ala Leu Leu Leu Leu Val Ser Ala  
                   1                  5                  10                  15  
 Gly Met Arg Thr Glu Asp Leu Pro Lys Ala Val Val Phe Leu Glu Pro  
                   20                  25                  30  
 Gln Trp Tyr Arg Val Leu Glu Lys Asp Ser Val Thr Leu Lys Cys Gln  
                   35                  40                  45  
 Gly Ala Tyr Ser Pro Glu Asp Asn Ser Thr Gln Trp Phe His Asn Glu  
                   50                  55                  60  
 Ser Leu Ile Ser Ser Gln Ala Ser Ser Tyr Phe Ile Asp Ala Ala Thr  
                   65                  70                  75                  80  
 Val Asp Asp Ser Gly Glu Tyr Arg Cys Gln Thr Asn Leu Ser Thr Leu  
                   85                  90                  95  
 Ser Asp Pro Val Gln Leu Glu Val His Ile Gly Trp Leu Leu Leu Gln  
                   100                  105                  110  
 Ala Pro Arg Trp Val Phe Lys Glu Glu Asp Pro Ile His Leu Arg Cys  
                   115                  120                  125  
 His Ser Trp Lys Asn Thr Ala Leu His Lys Val Thr Tyr Leu Gln Asn  
                   130                  135                  140  
 Gly Lys Gly Arg Lys Tyr Phe His His Asn Ser Asp Phe Tyr Ile Pro

seq list.txt

145					150					155				160
Lys	Ala	Thr	Leu	Lys	Asp	Ser	Gly	Ser	Tyr	Phe	Cys	Arg	Gly	Leu
				165					170					175
Gly	Ser	Lys	Asn	Val	Ser	Ser	Glu	Thr	Val	Asn	Ile	Thr	Ile	Thr
			180					185					190	Gln
Gly	His	His	His	His	His	His								
			195											

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